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Page 1 of 2

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

DOCKET: S10920000165US1

As a below named inventor, I hereby declare	e dust:	
My residence, post office address and citizen	nship are as stated below next to r	my name;
I believe I am the original, first and sole insmes are listed below) of the subject matter	inventor (if only one name is list r which is claimed and for which	a patent is sought on the invention entitled:
READ HEAD HAVING A TUNNEL JU WITH INSULATING ANTIFERROMAG		FREE LAYER BIASED BY EXCHANGE COUPLING
the specification of which (check one)		
X is attached hereto		
was filed on		
as Application Serial No.	(if applicable).	
I hereby state that I have reviewed and unby any amendment referred to above.	derstand the contents of the above	re-identified specification, including the claims, as amended
•		
I acknowledge the duty to disclose informa §1.56.	ation which is material to patenta	ability as defined in Title 37, Code of Federal Regulations,
I hereby claim foreign priority benefits un certificate listed below and have also iden before that of the application on which prior	sified below any foreign applicat	, §119 of any foreign application(s) for patent or inventor's tion for patent or inventor's certificate having a filing date
Prior Foreign Application(s)	my is chamica.	Priority Claimed
None		Yes No
(Number)	(Country)	(Date/Month/Year Filed)
the first paragraph of Title 35, United patentability as defined in Title 37, Code of the national or PCT international filing date. None	States Code, §112, I acknowled of Federal Regulations, §1.56 when of this application.	he prior United States application in the manner provided by fige the duty to disclose information which is material to nich occurred between filing date of the prior application and
(Application Serial No.) (F	iling Date) (S	Status) (patented, pending, abandoned)
believed to be true; and further that these are punishable by fine or imprisonment, statements may jeopardize the validity of the	e statements were made with the look or both, under Section 1001 of T	te and that all statements made on information and belief are knowledge that willful false statements and the like so made litle 18 of the United States Code and that such willful false d thereon.
POWER OF ATTORNEY: As a named inventor, I hereby appoint the in the Patent and Trademark Office connections.	ne following attorney(s) and/or agented therewith. (list name and reg	gent(s) to prosecute this application and transact all business gistration number)
Joseph C. Redmond, Jr. (#18,753)	Ervin F. Johnston (#20,190	John E. Hoel (#26,279)
Christopher A. Hughes (#26,914)	Robert B. Martin (#26,945	
	Paik Saber (#37,494)	William D. Gill (#44,124)
Douglas R. Millett (#31,784)	Randall J. Bluestone (#40,	
Eather E. Klein (#34,337) Ron Feece (#46,327)	Raissau J. Dineskine (840,	A COLUMNIA (A DOLOGO)

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

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Page 2 of 2 DOCKET: \$10920000165US1

Send correspondence to: Ron Feece, INTERNATIONAL BUSINESS MACHINES CORPORATION Dept. L2PA, 5600 Cottle Road, San Jose, California 95193		
Direct Telephone Calls to: Ervin F. Johnston (619-334-5883)		
Full name of sole or first joint-inventor: Knok San Ho		
Inventor's signature:	Date: 11/19/2001	
Residence: 5618 Stevens Creek, Apt. 239, Cupertino, California 95		
Citizenship: Chlna		
Post Office Address: Same		
Full name of second joint-inventor: Tao Pan		
Inventor's signature:	Date:	
Residence: 736 Dalewood Ct., San Jose, California 95120		
Citizenship: USA		
Post Office Address: Same		

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DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

Page 1 of 2 DOCKET: <u>SIO920000165US1</u>

YI Judalan Abat	
As a below named inventor, I hereby declare that:	
My residence, post office address and citizenship are as stated below next to m	ny name;
I believe I am the original, first and sole inventor (if only one name is listed names are listed below) of the subject matter which is claimed and for which a	d below) or an original, first and joint inventor (if plural patent is sought on the invention entitled:
READ HEAD HAVING A TUNNEL JUNCTION SENSOR WITH A FI WITH INSULATING ANTIFERROMAGNETIC (AFM) LAYERS the specification of which (check one)	REE LAYER BIASED BY EXCHANGE COUPLING
X is attached hereto	
was filed on	
as Application Serial No (if applicable).	
and was amended on (if applicable).	
I hereby state that I have reviewed and understand the contents of the above- by any amendment referred to above.	-identified specification, including the claims, as amended
I acknowledge the duty to disclose information which is material to patentab §1.56.	nility as defined in Title 37, Code of Federal Regulations,
I hereby claim foreign priority benefits under Title 35. United States Code, certificate listed below and have also identified below any foreign applications of the control of the contro	§119 of any foreign application(s) for patent or inventor's on for patent or inventor's certificate having a filing date
before that of the application on which priority is claimed: Prior Foreign Application(s)	Priority Claimed
None	Yes No
None (Country)	(Date/Month/Year Filed)
-	(Date/Month/Year Filed) United States application(s) listed below and, insofar as the e prior United States application in the manner provided by see the duty to disclose information which is material to
(Number) (Country) I hereby claim the benefit under Title 35, United States Code, §120 of any I subject matter of each of the claims of this application is not disclosed in the the first paragraph of Title 35, United States Code, §112, I acknowledge patentability as defined in Title 37, Code of Pederal Regulations, §1.56 which the national or PCT international filing date of this application. None.	(Date/Month/Year Filed) United States application(s) listed below and, insofar as the c prior United States application in the manner provided by ge the duty to disclose information which is material to ch occurred between filing date of the prior application and
(Number) (Country) I hereby claim the benefit under Title 35, United States Code, §120 of any I subject matter of each of the claims of this application is not disclosed in the the first paragraph of Title 35, United States Code, §112, I acknowledge patentability as defined in Title 37, Code of Pederal Regulations, §1.56 which the national or PCT international filing date of this application. None (Application Serial No.) (Filing Date)	(Date/Month/Year Filed) United States application(s) listed below and, insofar as the prior United States application in the manner provided by ge the duty to disclose information which is material to ch occurred between filing date of the prior application and Status) (patented, pending, abandoned)
(Number) (Country) I hereby claim the benefit under Title 35, United States Code, §120 of any I subject matter of each of the claims of this application is not disclosed in the the first paragraph of Title 35, United States Code, §112, I acknowledge patentability as defined in Title 37, Code of Pederal Regulations, §1.56 which the national or PCT international filing date of this application. None.	(Date/Month/Year Filed) United States application(s) listed below and, insofar as the prior United States application in the manner provided by ge the duty to disclose information which is material to ch occurred between filing date of the prior application and Status) (patented, pending, abandoned) and that all statements made on information and belief are mowledge that willful false statements and the like so made into the content of the United States Code and that such willful false.
(Number) (Country) I hereby claim the benefit under Title 35, United States Code, §120 of any I subject matter of each of the claims of this application is not disclosed in the the first paragraph of Title 35, United States Code, §112, I acknowledge patentability as defined in Title 37, Code of Federal Regulations, §1.56 which the national or PCT international filing date of this application. None (Application Serial No.) (Filing Date) (S I hereby declare that all statements made herein of my knowledge are true believed to be true; and further that these statements were made with the k	(Date/Month/Year Filed) United States application(s) listed below and, insofar as the prior United States application in the manner provided by ge the duty to disclose information which is material to ch occurred between filing date of the prior application and Status) (patented, pending, abandoned) and that all statements made on information and belief are knowledge that willful false statements and the like so made itle 18 of the United States Code and that such willful false it thereon.

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Page 2 of 2 DOCKET: \$10920000165US1 Send correspondence to: Ron Feece, INTERNATIONAL BUSINESS MACHINES CORPORATION Dept. L2PA, 5600 Comb Road, San Jose, California 95193 Direct Telephone Calls to: Ervin F. Johnston (619-334-5883) Full name of sole or first joint-inventor: Knok San Ho Inventor's signature: Date: Residence: 5618 Stevens Creek, Apt. 239, Capertino, California 95014 Citizenship: China Post Office Address: Same Full name of second joint-inventor: Tao Pan Inventor's signature: 11/18/01 Date: Residence: 736 Dalewood Ct., San Jose, California 95120

Citizenship: USA

Post Office Address: Same